

Fig. 1

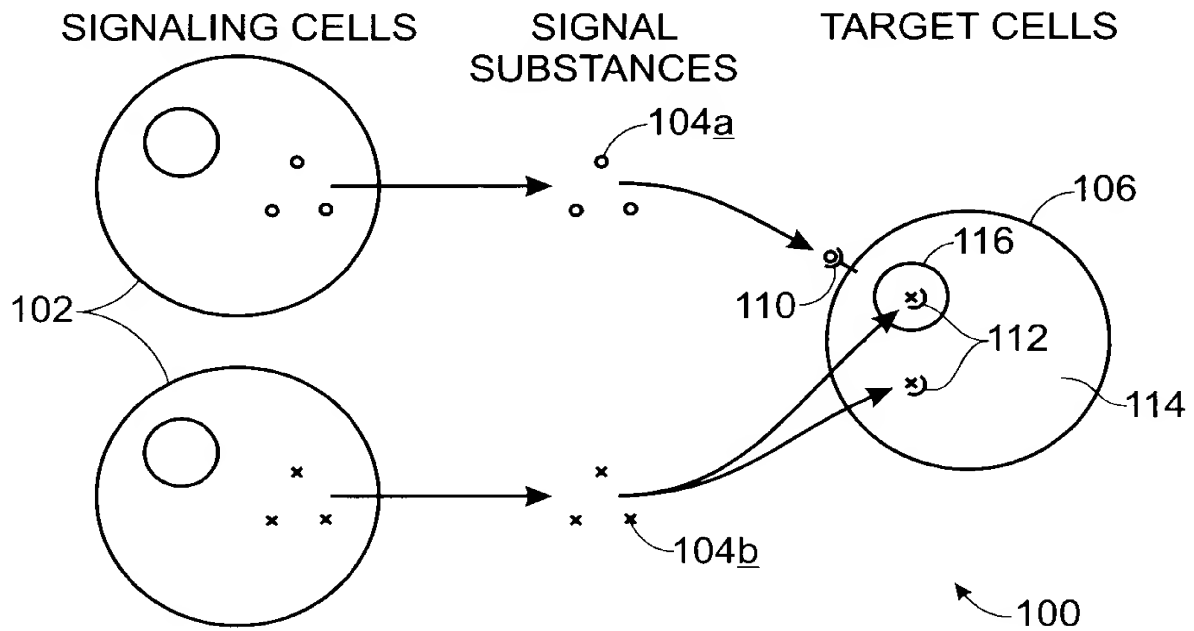


Fig. 2

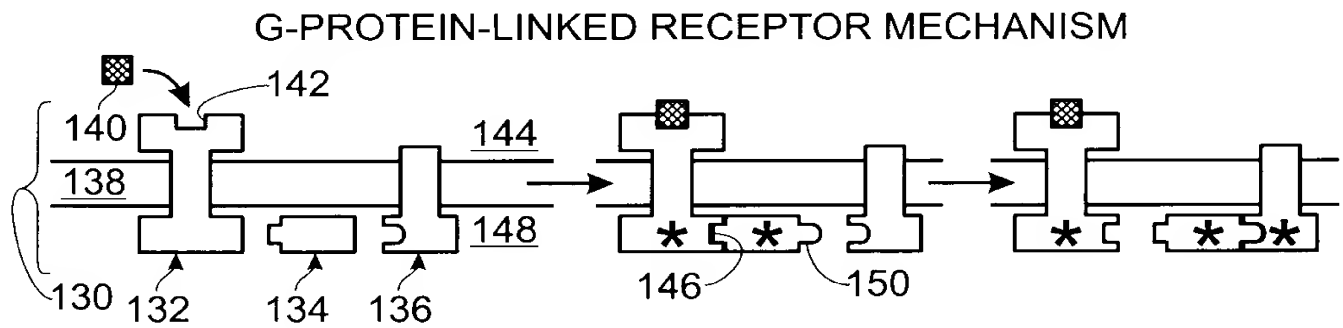


Fig. 3

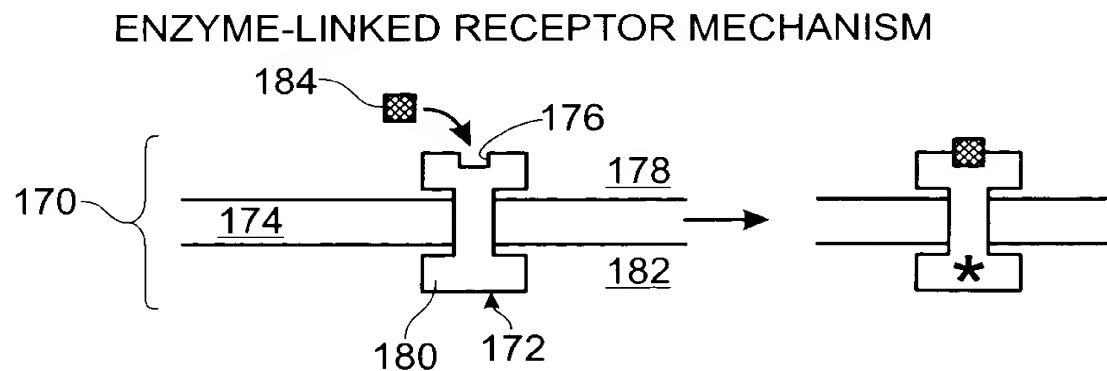


Fig. 4

INTRACELLULAR SIGNALING PATHWAYS

A PHOSPHORYLATION
PATHWAY

B GTP-BINDING
PATHWAY

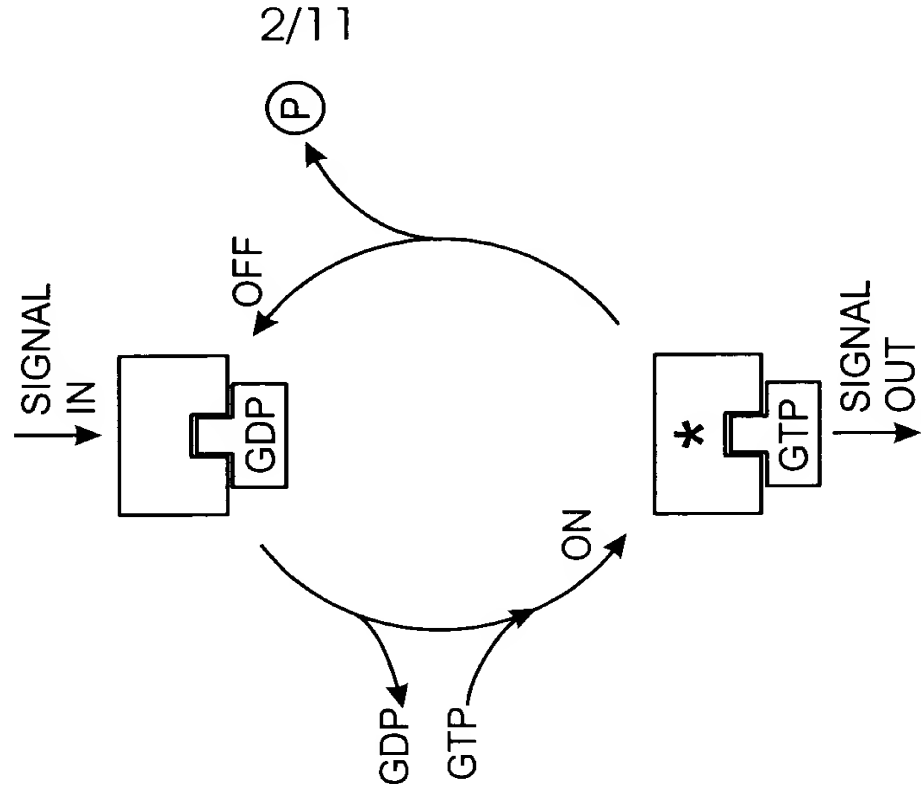
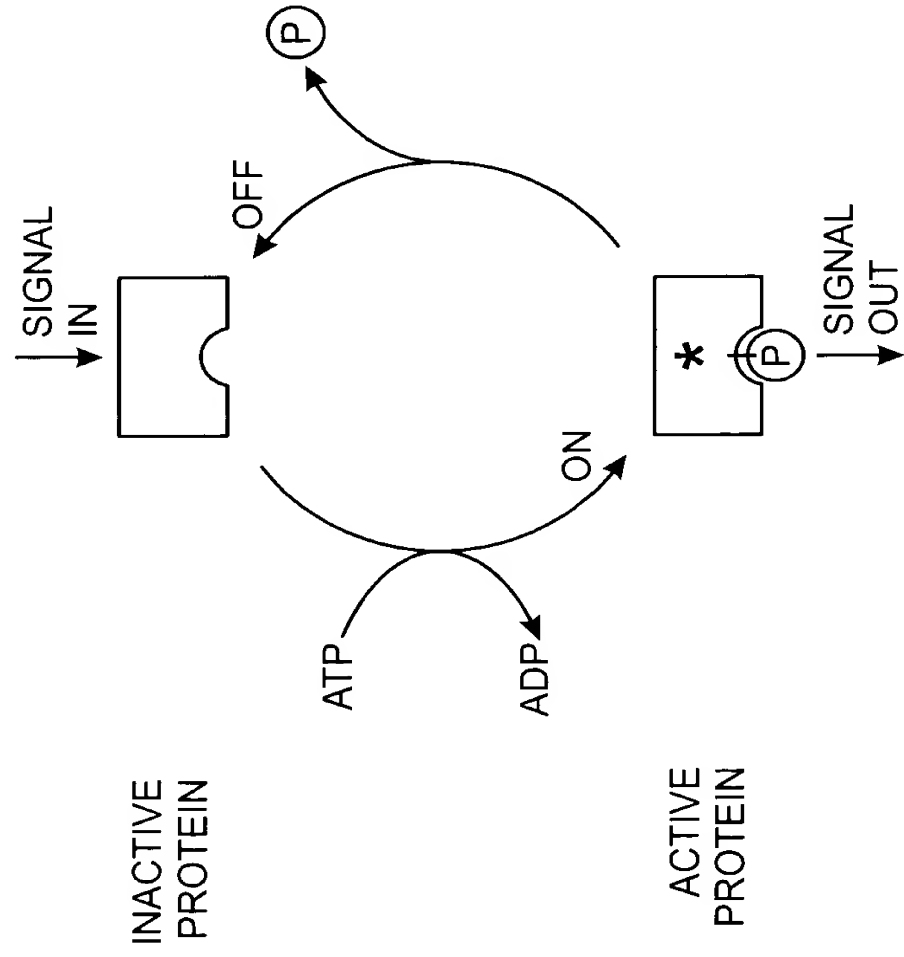


Fig. 5

CYCLIC NUCLEOTIDE ASSAY

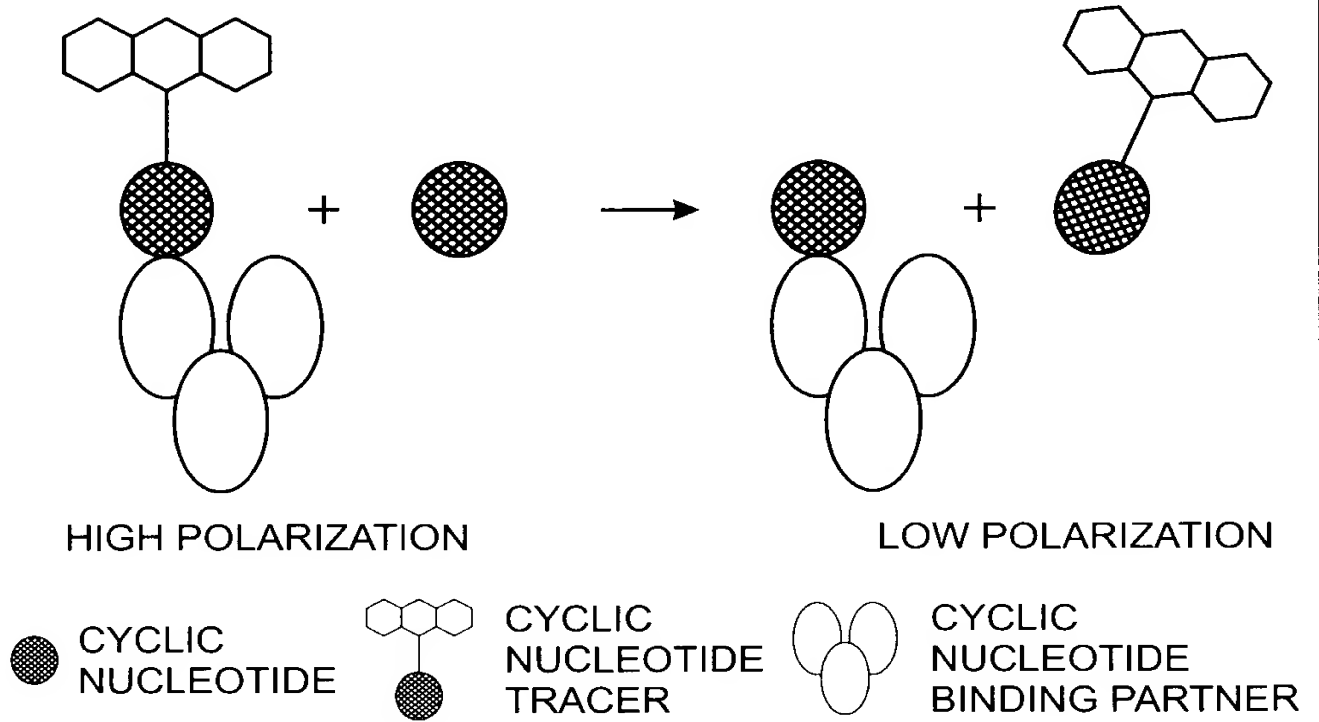


Fig. 6

GTP-BINDING PROTEIN ASSAY

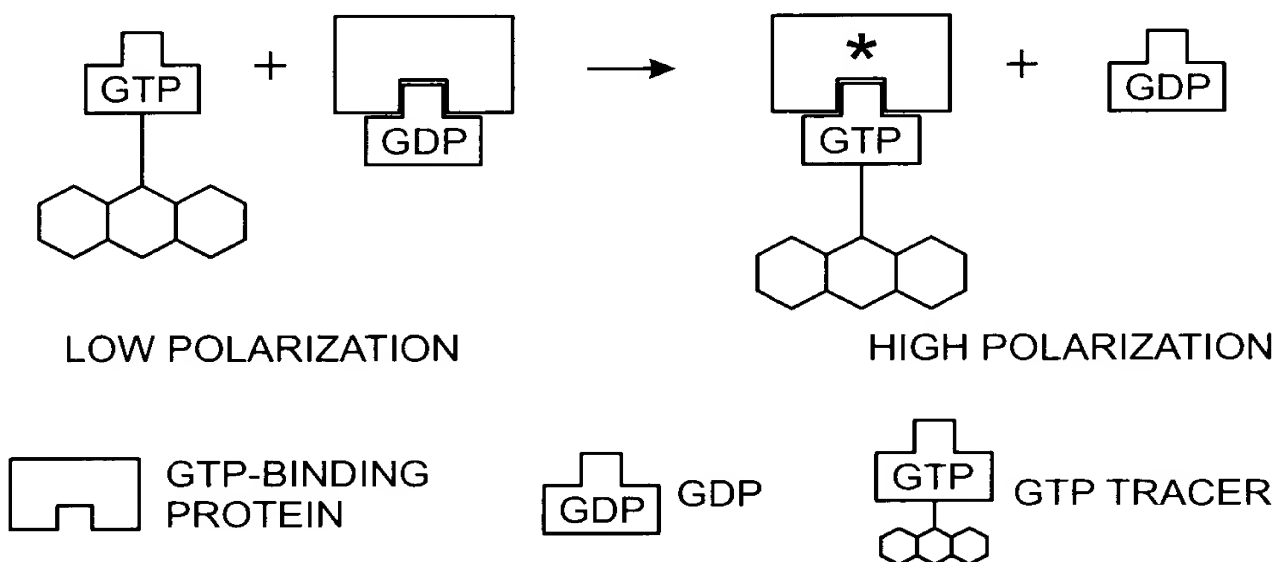
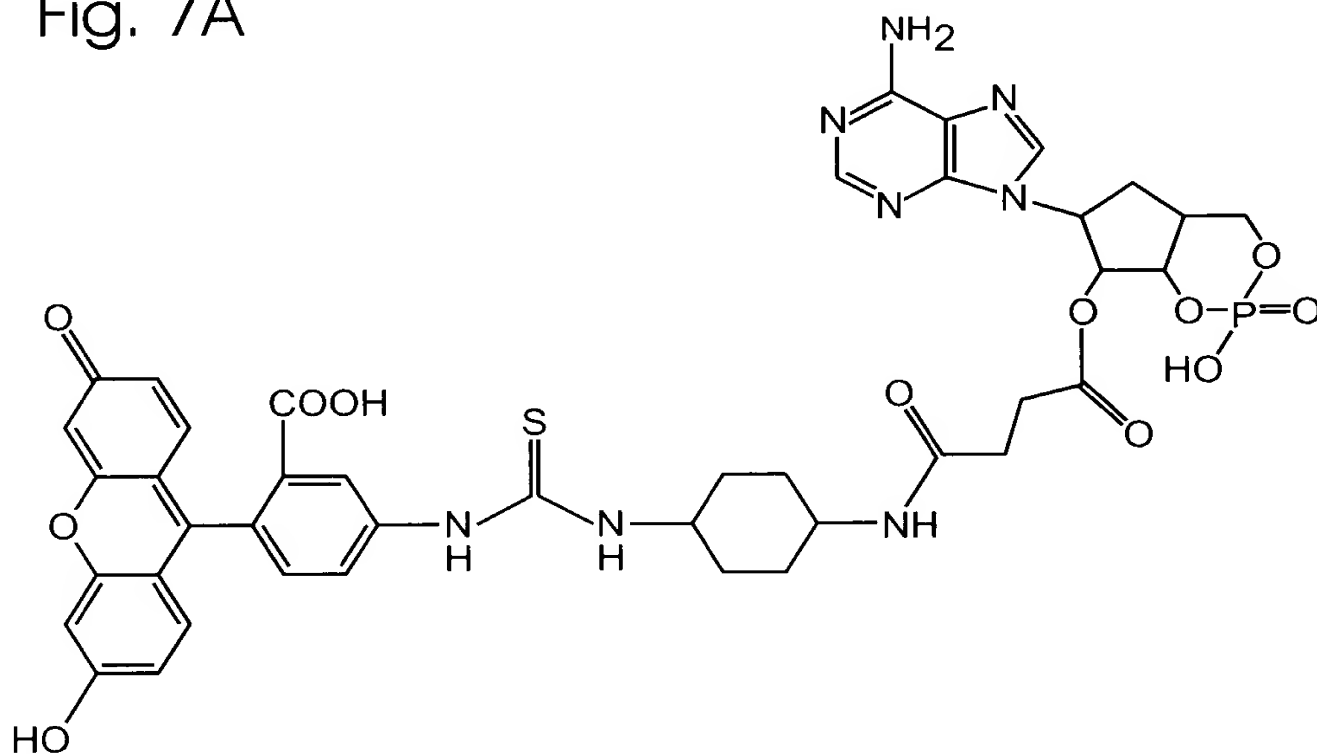
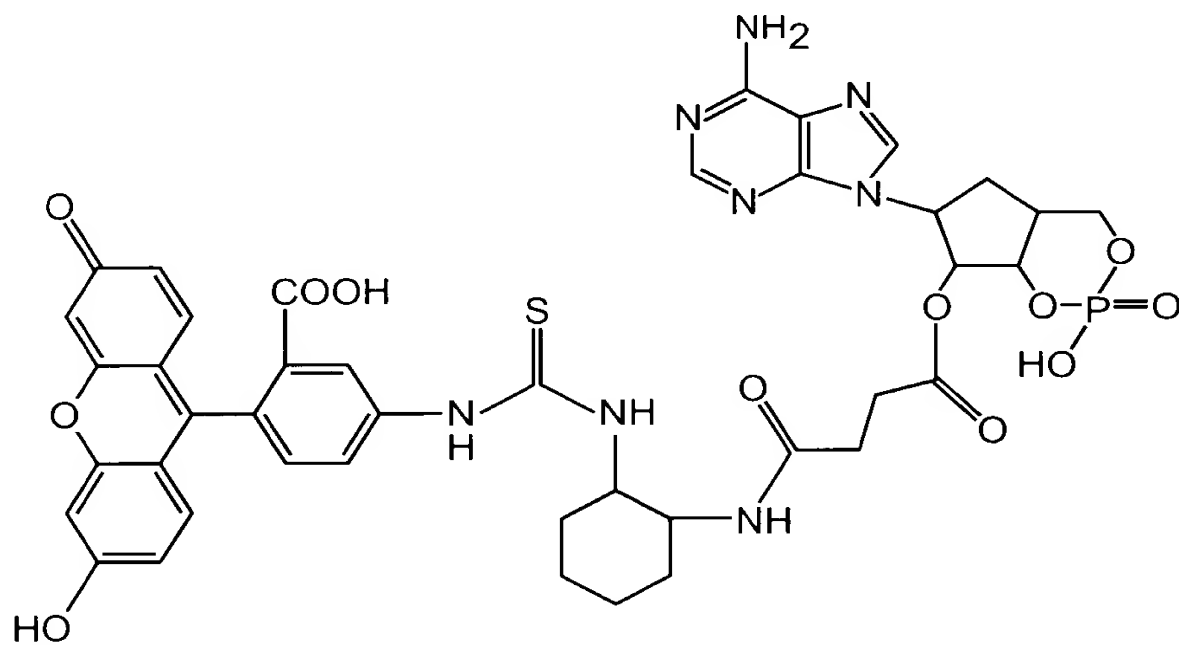


Fig. 7A

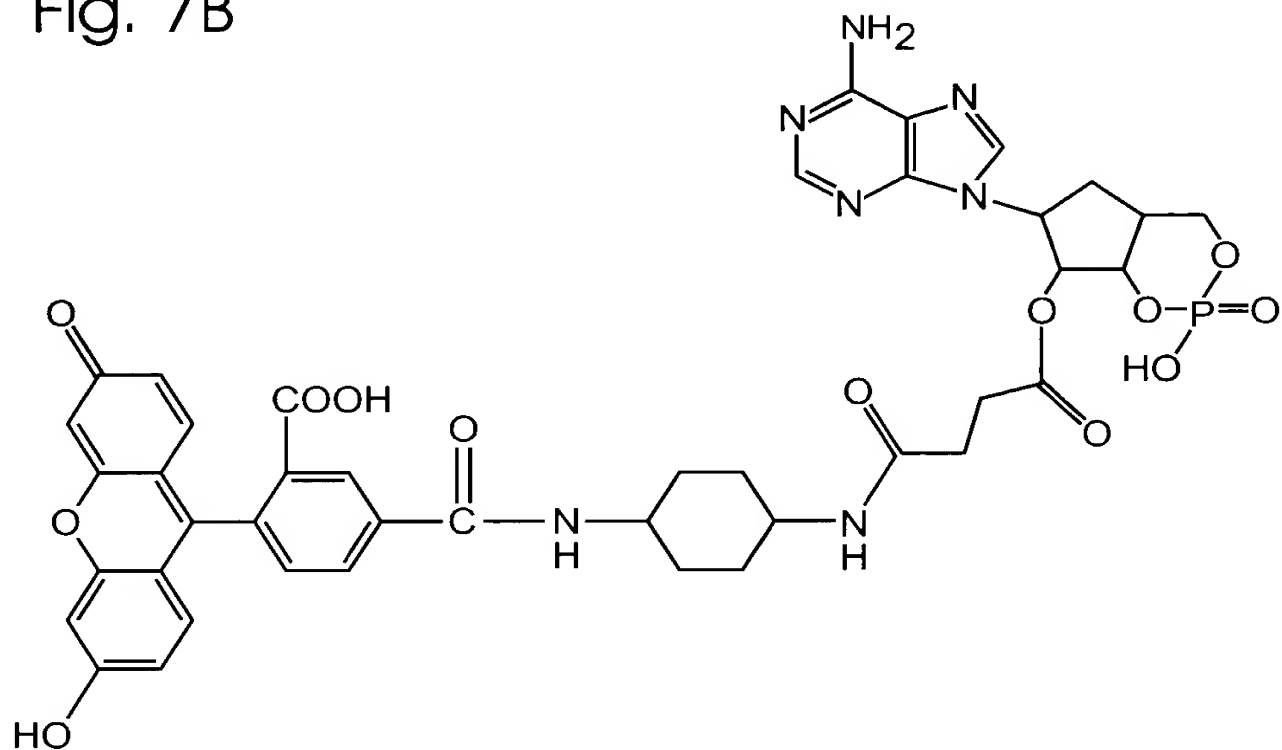


fluorescein-ITC-1,4-DACHsuccinimidyl cAMP

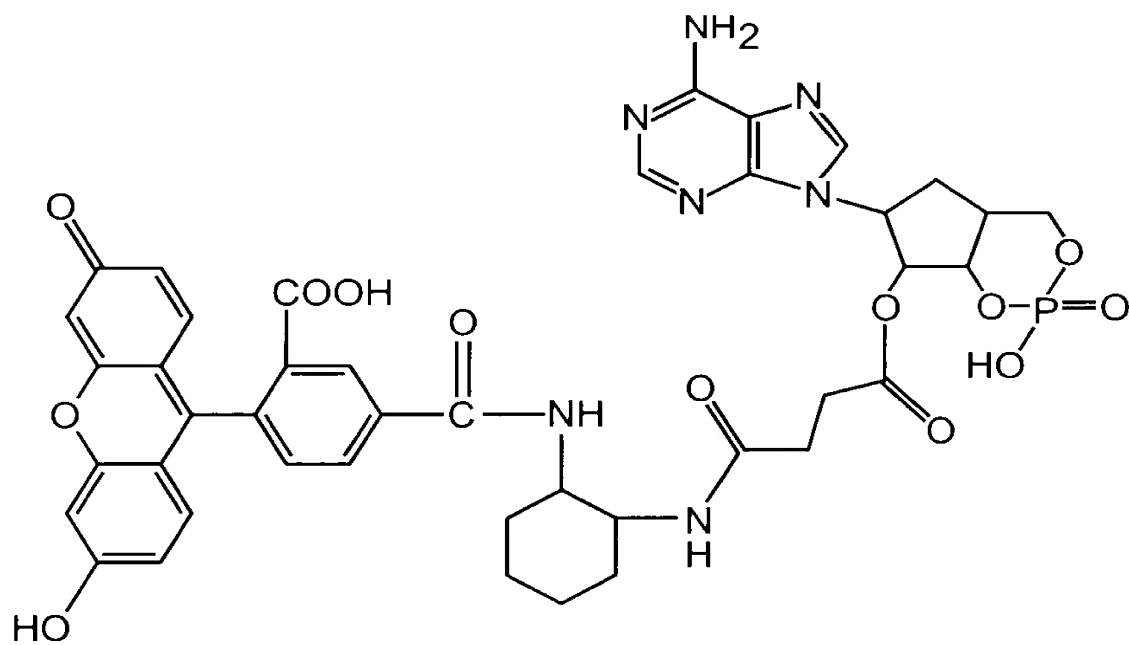


fluorescein-ITC-1,2-DACHsuccinimidyl cAMP

Fig. 7B

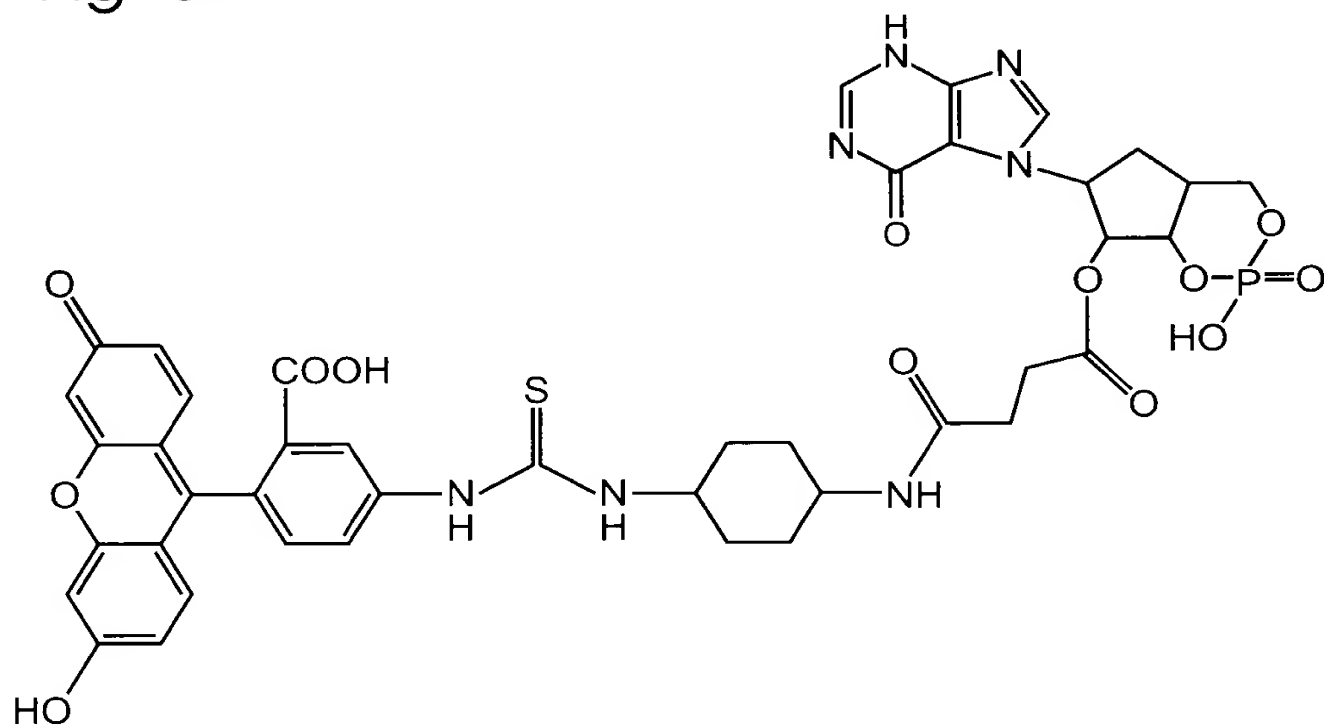


carboxyfluorescein-1,4-DACHsuccinimidyl cAMP

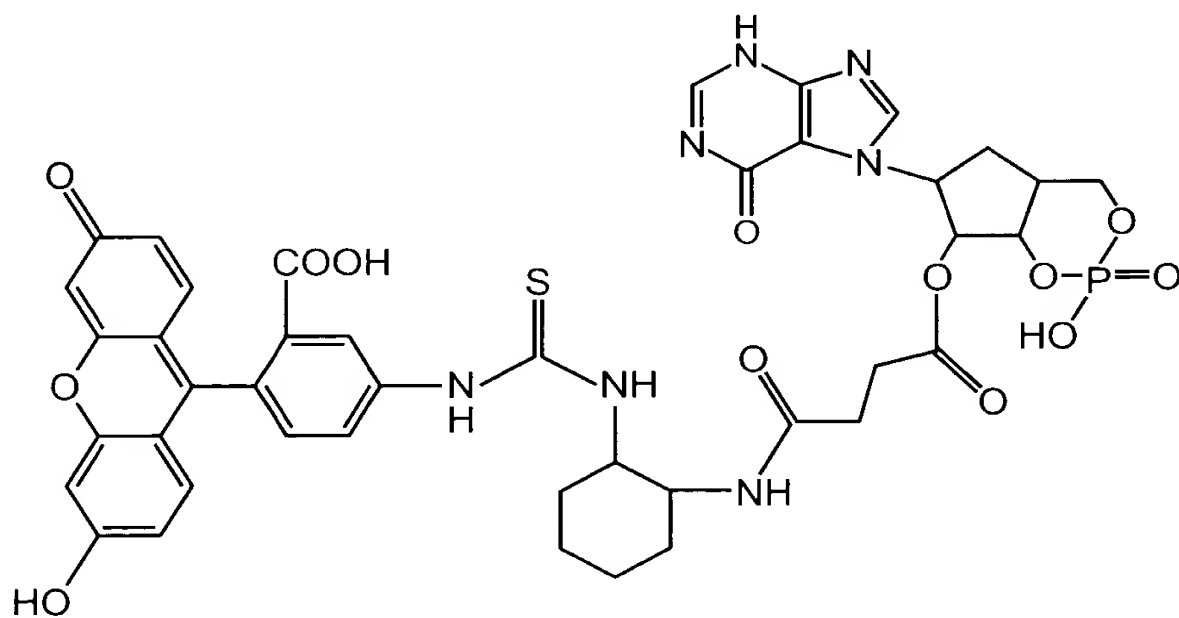


carboxyfluorescein-1,2-DACHsuccinimidyl cAMP

Fig. 8A

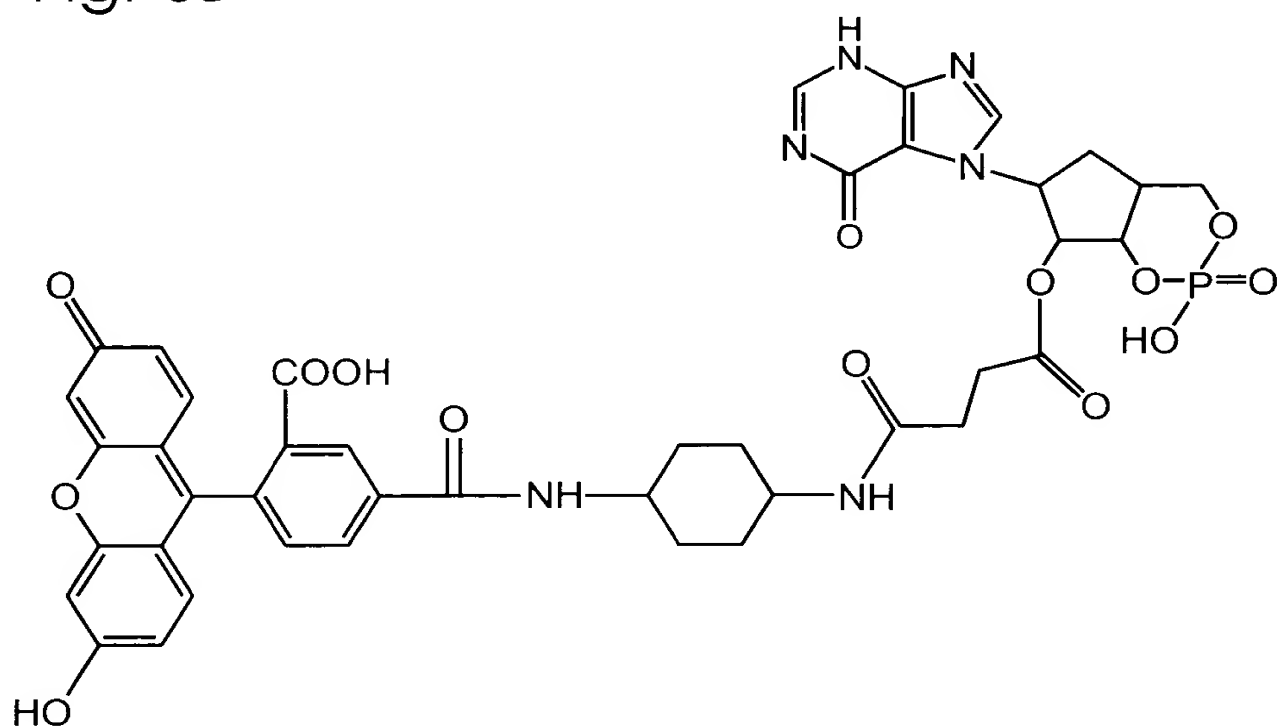


fluorescein-ITC-1,4-DACHsuccinimidyl cGMP

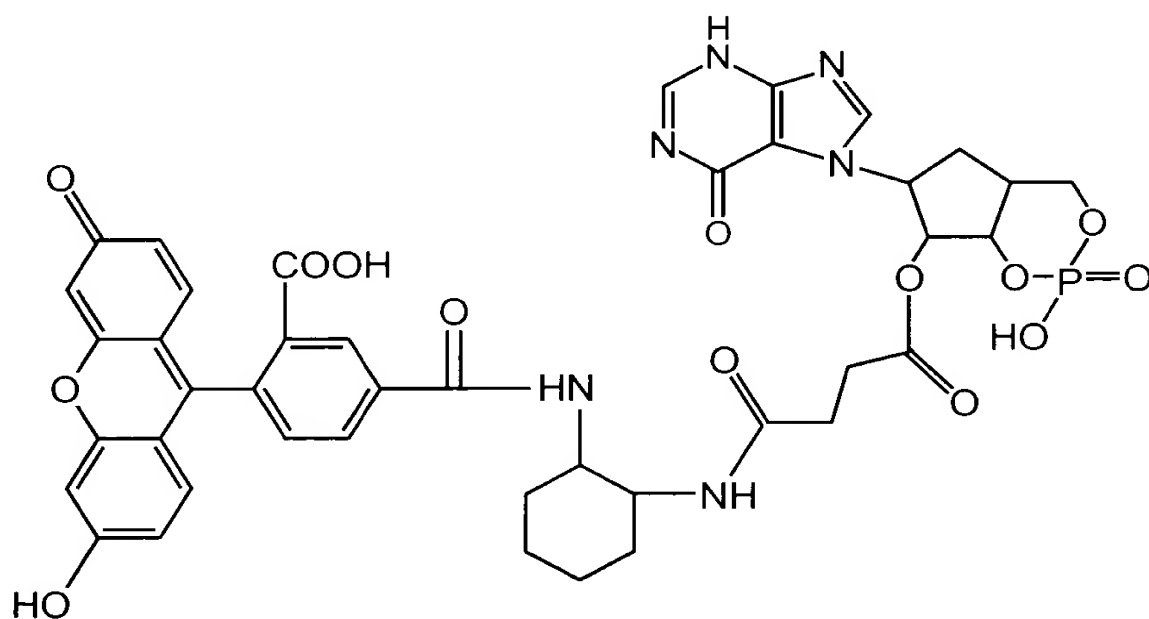


fluorescein-ITC-1,2-DACHsuccinimidyl cGMP

Fig. 8B



carboxyfluorescein-1,4-DACHsuccinimidyl cGMP



carboxyfluorescein-1,2-DACHsuccinimidyl cGMP

Fig. 9A

	1 [cAMP CALIBRATORS]	2 [CONTROLS]	3 [SAMPLES]
A	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 10 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	40 μ L BUFFER	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 1 10 μ L cAMP TRACER WORKING STOCK
B	↓	↓	↓
C	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 3.33 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	↓	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 2 10 μ L cAMP TRACER WORKING STOCK
D	↓	↓	↓
E	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 1.11 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	30 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 3 10 μ L cAMP TRACER WORKING STOCK
F	↓	↓	↓
G	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 0.37 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	↓	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 4 10 μ L cAMP TRACER WORKING STOCK
H	↓	↓	↓

Fig. 9B

	1 [CAMP CALIBRATORS]	2 [CONTROLS]	3 [SAMPLES]
I	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 0.12 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	30 μ L BUFFER 10 μ L TRACER WORKING STOCK	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 5 10 μ L cAMP TRACER WORKING STOCK
J	↓	↓	↓
K	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 0.041 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	↓	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 6 10 μ L cAMP TRACER WORKING STOCK
L	↓	↓	↓
M	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 0.014 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	20 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L cAMP TRACER WORKING STOCK	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 7 10 μ L cAMP TRACER WORKING STOCK
N	↓	↓	↓
O	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L 0.005 μ M CALIBRATOR 10 μ L cAMP TRACER WORKING STOCK	↓	10 μ L BUFFER 10 μ L cAMP Ab WORKING STOCK 10 μ L SAMPLE 8 10 μ L cAMP TRACER WORKING STOCK
P	↓	↓	↓

Fig. 10

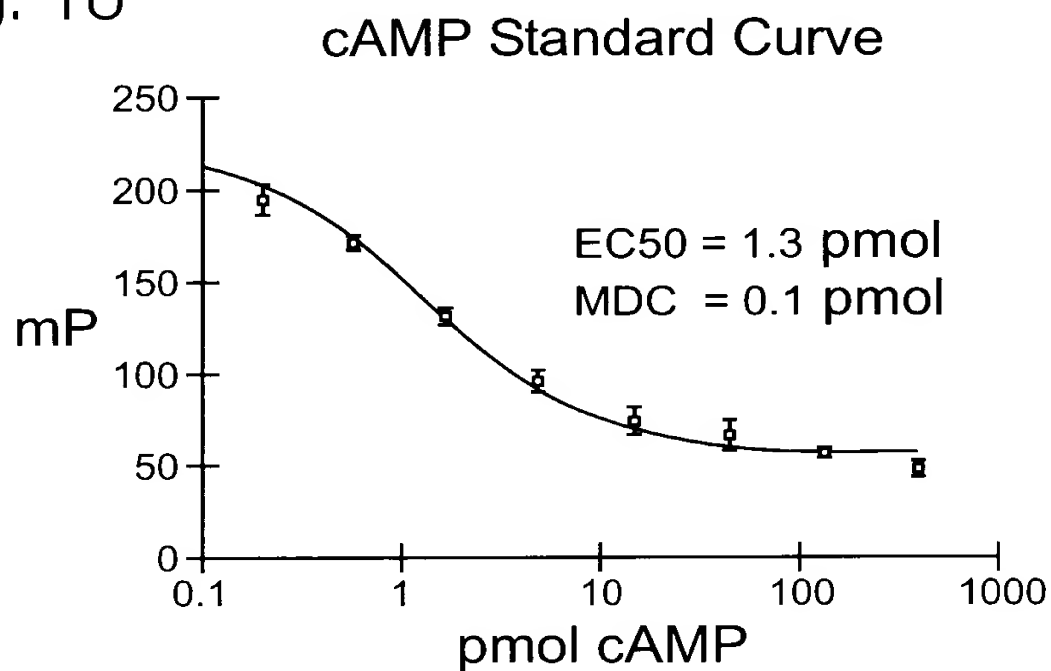


Fig. 11

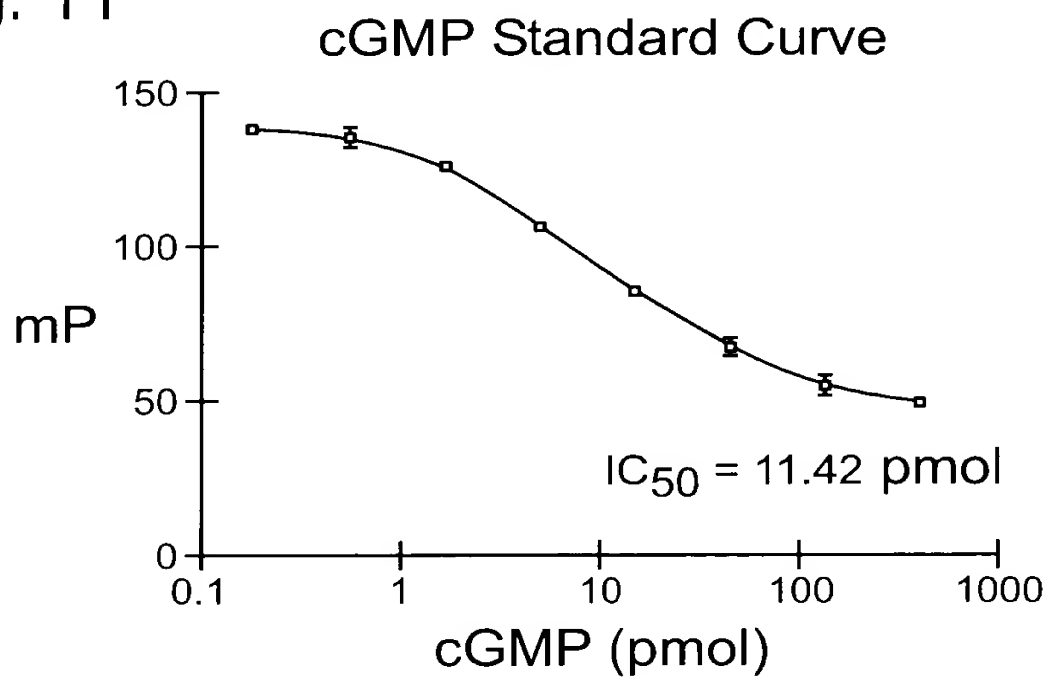


Fig. 12

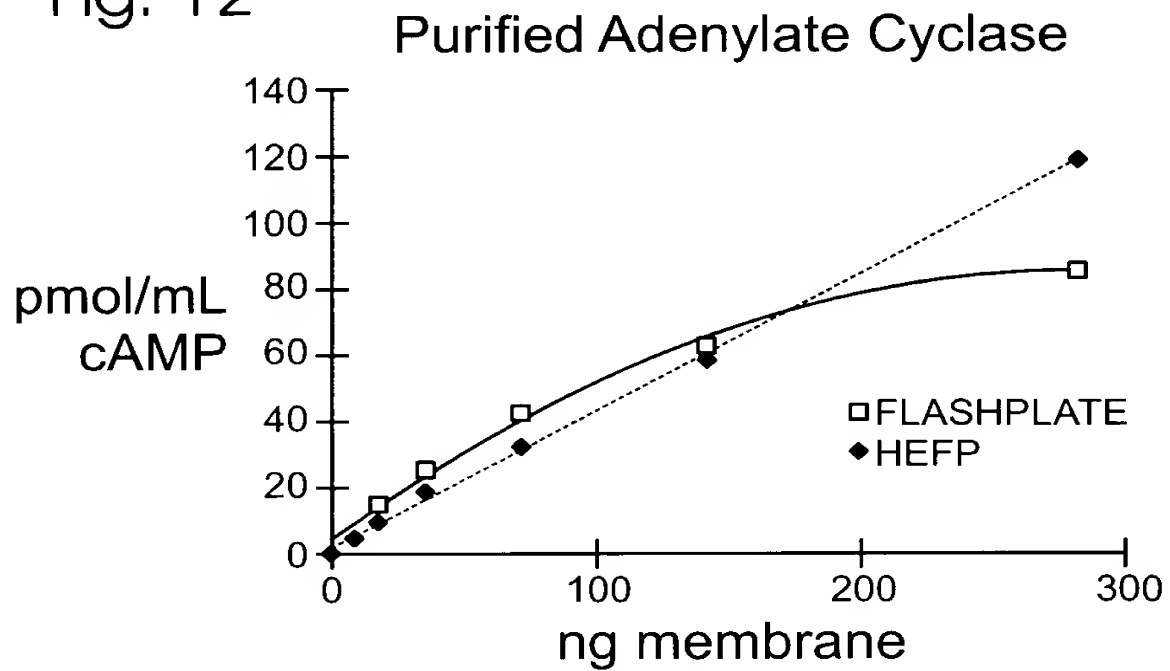


Fig. 13

